Ontario

Ministry of Natural Resources

Hon. Michael Harris
Minister

Mary Mogford
Deputy Minister

Ministry of Northern Affairs

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Minister

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Deputy Minister

ONTARIO GEOLOGICAL SURVEY

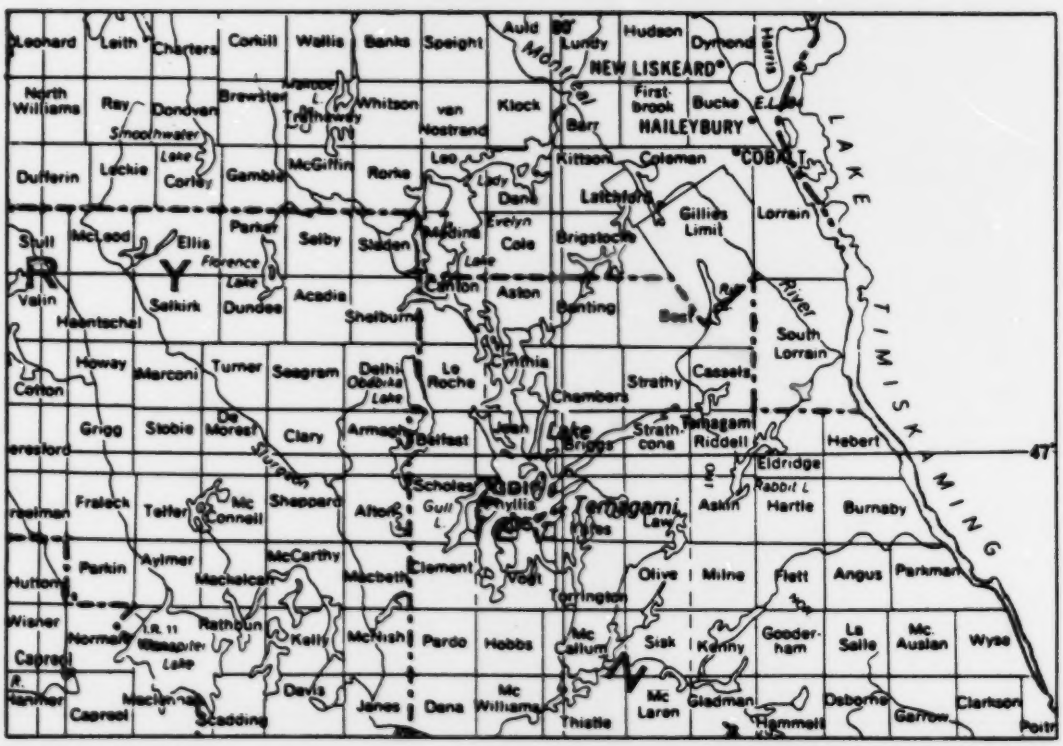
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 235

PHYLLIS TOWNSHIP

DISTRICT OF NIPISSING

Compiled by the Staff of
the Resident Geologists Office
Cobalt



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

NTS Number 41 I/16

Mining Claim Map Number M-567

This project was funded by the Ontario Ministry of Northern Affairs through the Northern Ontario Geological Survey (NOGS) Program.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1985: Phyllis Township, District of Nipissing, Ontario Geological Survey, Geological Data Inventory Folio 235, compiled by the Staff of the Resident Geologist's Office, Cobalt, 70 pages and 3 maps.

Original Compilation by: Patricia Anderson, November 1, 1984.

Date	Page Revised	Revised by

Date	Page Revised	Revised by

PHYLLIS TOWNSHIP

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ACCOMPANYING MAPS

Property Location Map - 2 map
Exploration Data Map - 1 map
Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	D.P.A.
2	Assessment Files Research Office, Toronto	Yes	D.P.A.
3	ODM General Index; 7 volumes	Yes	D.P.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	Yes	D.P.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	D.P.A.
6	ODM Industrial Mineral Reports	No	D.P.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	D.P.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	D.P.A.
9	Newspaper Clippings File	Yes	D.P.A.
10	GSC Index to Publications	Yes	D.P.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	D.P.A.
12	OGS Index Maps	Yes	D.P.A.
13	Source Mineral Deposit Records (O.G.S.)	Yes	D.P.A.
14	Author - Subject Articles File	Yes	D.P.A.
15	Miscellaneous Papers: ODM & OGS	Yes	D.P.A.
16	ODM Geological Circulars: OGS Study Series	No	D.P.A.
17	ODM Preliminary Reports: ODM Bulletins	No	D.P.A.
18	ODM – OGS Open File Reports	No	D.P.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	D.P.A.
20	OGS Aggregate Resources Inventory Papers	N.A.	D.P.A.
21	OGS Mineral Potential Maps	Yes	D.P.A.
22	Theses on File, Cobalt	Yes	D.P.A.
23	Aerial Photographs on File, Toronto	Yes	D.P.A.

METALS AND MINERALS REFERENCES LIST

- △ anh. . . . . .Anhydrite
- △ ank. . . . . .Ankerite
- △ anna . . . . . Annabergite
- △ ap. . . . . .Apatite
- △ arg . . . . . Argentite
- △ As . . . . . .Arsenic
- △ asp . . . . . .Arsenopyrite
- △ asb . . . . . .Asbestos
- △ ba. . . . . .Barite
- △ be. . . . . .Beryl
- △ Bi. . . . . .Bismuth
- △ bn . . . . . .Bornite
- △ bran . . . . . .Brannerite
- △ bruc . . . . . .Brucite
- △ Cd . . . . . Cadmium
- △ calc. . . . . .Calcite
- △ carb . . . . . .Carbonate
- △ cel . . . . . .Celestite
- △ cc. . . . . .Chalcocite
- ▲ cp. . . . . .Chalcopyrite
- △ ch. . . . . .Chert
- △ clay . . . . . .Clay
- ▲ Co . . . . . Cobalt
- △ cob. . . . . Cobaltite
- △ cb. . . . . .Columbite
- ▲ Cu . . . . . .Copper
- △ cor . . . . . Corundum
- △ dol . . . . . Dolomite
- △ ep. . . . . Epidote
- △ ery . . . . . Erythrite
- △ fel . . . . . .Feldspar
- △ fl . . . . . .Fluorite (flurospar)
- △ fu. . . . . .Fuchsite
- ▲ gn. . . . . .Galena
- △ gt. . . . . .Garnet
- △ goe. . . . . .Goethite
- ▲ Au . . . . . Gold
- △ gf. . . . . .Graphite
- △ gl . . . . . Gravel
- △ gyp. . . . . .Gypsum
- △ hem . . . . . Hematite
- △ il . . . . . .Ilmenite
- ▲ Fe . . . . . .Iron
- ▲ IF. . . . . Iron Formation
- △ jas . . . . . Jasper
- △ kaol . . . . . .Kaolinite (kaolin)
- △ ky . . . . . Kyanite
- △ Pb . . . . . Lead
- ▲ lim . . . . . Limonite
- △ Li. . . . . Lithium
- △ mgst . . . . . .Magnesite
- ▲ mag . . . . . .Magnetite
- △ mc . . . . . Malachite
- △ Mn . . . . . Manganese
- △ mb . . . . . .Marble
- △ mar. . . . . Marcasite
- △ ma . . . . . .Marl
- △ mi . . . . . Mica
- △ ml . . . . . .Millerite
- △ mo . . . . . .Molybdenite
- △ Mo . . . . . .Molybdenum
- △ mon . . . . . Monazite
- △ ne. . . . . Nephelite (nepheline)
- △ nc. . . . . .Niccolite
- ▲ Ni. . . . . Nickel
- △ Nb . . . . . .Niobium
- △ Pd . . . . . .Palladium
- △ peat . . . . . .Peat
- △ pent . . . . . .Pentlandite
- ▲ Pt. . . . . .Platinum
- ▲ py . . . . . .Pyrite
- △ pyl . . . . . Pyrochlore
- △ pyrl . . . . . .Pyrolusite
- ▲ po . . . . . .Pyrrhotite
- △ q . . . . . .Quartz
- △ qcv . . . . .Quartz carbonate vein
- △ ra. . . . . .Radioactive minerals
- △ RE . . . . . .Rare Earths
- △ sd. . . . . Sand
- △ sgl . . . . . Sand and gravel
- △ ss . . . . . .Sandstone
- △ scap . . . . . Scapolite
- △ shee . . . . . .Scheelite
- △ serp . . . . . Serpentine
- △ sh. . . . . .Shale
- △ sid . . . . . Siderite
- △ si . . . . . .Silica
- ▲ Ag . . . . . .Silver
- △ sl . . . . . Slate
- △ sm . . . . . .Smaltite
- △ sod. . . . . Sodalite
- △ spec . . . . . Specularite
- ▲ sp. . . . . .Sphalerite
- △ spd. . . . . .Spodumene
- △ staur. . . . . .Staurolite
- △ stib. . . . . Stibnite
- △ st . . . . . .Stone
- △ talc. . . . . .Talc
- △ Te . . . . . .Tellurium
- △ td. . . . . Tetrahedrite
- △ th. . . . . .Thorite
- △ Th . . . . . .Thorium
- △ thuc . . . . . Thucholite
- △ ti . . . . . Titanite
- △ Ti. . . . . Titanium
- ▲ tour . . . . . .Tourmaline
- △ trap . . . . . .Trap rock
- △ W. . . . . Tungsten
- △ uran . . . . . Uraninite
- △ U . . . . . .Uranium
- △ verm . . . . . .Vermiculite
- △ Y . . . . . Yttrium
- ▲ Zn . . . . . .Zinc
- △ zr. . . . . Zircon
- ▲ G . . . . . .Gersdorffite
- ▲ hb. . . . . Hornblende

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps or listed in Drillhole Summary

PHYLLIS TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A.	Temagami Mine	Cu - major Au, Ag, Ni, Pt, Co - Minor	N-0024 SMDR-00919	MDC 2, pp. 117-118 MDC 12, p. 201 Cu 4	OGS, 1964, GR 28, pp. 25-27 OGS, 1964, Map 2057 ODM, 1942, AR vol. 51, pt. 6, p. 25 ODM, 1942, Map 51e Northern Miner, Oct. 21, 1954 July 19, 1956 Nov. 28, 1968
B.	Island No. 725	Cu - major Ni - minor		MDC 2, p. 119 MDC 12, p. 209	ODM, 1942, AR vol. 51, pt. 6 Northern Miner May 17, 1956
C.	Phillips Bay Pyrite	Fe, Cu major		MDC 5, pp. 41-42	Thomson, J.E., 1960, Massive sulphide occurrences in Ontario; Trans. Canadian Inst. Min. Met., vol. 63, pp. 77-81.
D.	Skunk Lake Prospect	IF - major		MDC 11, pp. 274-275	ODM, 1966, Map P. 367 ODM, 1964, Map 2057 GSC, 1965, Map 1501G ODM, 1964, GR 28, pp. 27-28

GDIF FORM NO. 1

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
E.	Cummings Lake Prospects, Phyllis & Scholes Twp.	IF - major		MDC 11, p. 275-276, MPBP 2, p. 55	ODM, 1966, Map P. 367 GSC, 1965, Map 1502G Prospectus, 1966, North. American Rare Metals Ltd. Prospectors, 1958, Tamicon Iron Mines Ltd.
F.	Byberg, A.	Cu		MDC 12, p. 209	
G.	International Copper & Cobalt	Cu		MDC 12, p. 210	
H.	Key Mineral	Cu		MDC 12, p. 210	
I.	Min-Ore	Cu		MDC 12, p. 210	
J.	Billfield (Billfeld) Occurrence	Au - major Ag - minor	N-0091 SMDR-002264	MDC 19, p. 27	ODM, 1942, vol. 51, pt. 6, pp. 30-31 ODM, 1942, Map 51e
K.	Niemetz, C.J.	Au - major	N-0090 SMDR-002265	MDC 18, p. 27	OGS, 1942, AR vol. 51, pt. 6, pp. 36-37 OGS, 1942, Map 51e

GDIF FORM NO. 1

PHYLLIS TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
1	Abex Mines Ltd., Gull Lake Claims AFRO #63.723, #63.388	53 56						68	53			53					56			
2	Abex Mines Ltd., Central Group and Island 725 AFRO #63-456	52			52 52 54	52		52 53 56				52								
3	Atlas Yellowknife Mines Ltd.				57															
4	Byeberg, A.			53		53		53												
5	Derosier Nickel and Copper Mines Ltd. - optioned to H.W. Knight [1951]				51	51		51 51 53												

GDIF FORM NO. 2

PHYLLIS TOWNSHIP 6

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
6	Empire Explorations	61			61 62			62								61	61			
7	Feld Temagami Mines Ltd. Krefeld Graphite Gold Mines Ltd. Mining Corp. of Canada Ltd. Arntfield Gold Mines Ltd. Billfield, Billfeld			34	? ?	?		57					57				57			
8	Frontenac Exploration & Development Co. Ltd., - optioned from Derosier Nickel & Copper Mines Ltd. [1952]				52	52														

GDIF FORM NO. 2

PHYLLIS TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
9	Geo-Scientific Propectors Ltd., West Timagami Claims AFRO #63-362	52	52					54 56	52								52			
10	Key Mineral Investigations Ltd., R.B. Grieve Claims				63															
11	International Cobalt & Silver Mining Co. Ltd. AFRO #63-675				56 58			56 58									56			
12	Keevil, N.B., Narrow Island Group				67															
13	Key Mineral Investigations Ltd.				63 64															

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TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
14	Min-Ore Mines Ltd.				56															
15	Myteque Mines Ltd., Phyllis & Joan Twps.							56 57												
16	Offshore Mines Ltd. - possibly work done under option to Frontenac Exploration & Development Co. Ltd. AFRO #63.449				52 53	53										52				
17	Pebble Uranium Mines Ltd.							57												
18	Copperfields Mining Corp. Ltd., Islands 184, 198, 203, Phyllis & Briggs Twp.				69 70	70		67 69 70												

GDIF FORM NO. 2

PHYLLIS TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	OPEN PIT MINING		
	COMPANY/AUTHOR (file number)																			
19	Temagami Mining Co. Ltd., Skunk Lake Claims, Phyllis & Scholes Twp. AFRO #63.1111	57			57 61 62							61								
20	Timagami Mining Co. Ltd., [1954] amalgamated Derosier Nickel & Copper Mines Property AFRO #63.651 #63.684 #63.703	56 59 60 61 63		56	54 55 56 57 59 61 62 63	54 55 56 61 63 64	56- 63	54 55 56 57 58 59 60 61 62 63 64 65 66								55	55 56 58	55- 59		

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TO PHYLLIS TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
21	North American Rare Metals Ltd., Skunk Lake Group, Phyllis & Scholes Twp. AFRO #63.787	57										57								
22	Niemetz, C.J.			42?																

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PHYLLIS TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
1	Abex Mines Ltd., Gull Lake Claims	GA-4	56	330	- 47.5	45	750	po, py	
2	Abex Mines Ltd., Central Group	1	52	162	-45	66	506		
3	Abex Mines Ltd., Central Group	2	52	315			715	cp	Cu
4	Abex Mines Ltd., Central Group	3	52	000	-45	10	625	py, cp	
5	Abex Mines Ltd., Central Group	4	52	342			525	cp	Cu
6	Abex Mines Ltd., Central Group	5	52	315	-45	50	592	py, cp	Cu, Ni, Co
7	Abex Mines Ltd., Central Group	6	52	305	-45	21	571	mag	
8	Abex Mines Ltd., Central Group	7	52	315					

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
9	Abex Mines Ltd., Central Group	8	52	315	-45	32	645	py, hb	Cu, Ni, Co
10	Abex Mines Ltd., Central Group	9	52	339			561?	py, po	Cu, Ni, Co
11	Frontenac Exploration & Development Co. Ltd.	81	53						
12a	Abex Mines Ltd., Central Group	201	54	135	-45	0	225	py, cp	
12b		202	54						
13	Atlas Yellowknife Mines Ltd.	AY1	57	-	-90	27	202	py	
14a	Derosier Nickel & Copper Mines Ltd.	1	51	270	-45	4	396	cp, py, po, sp	Cu, Ni, Zn
14b		2	51	090	-45	17	481	cp, py, cp	Cu, Ni
14c		3	51	090	-45	5	116	cp, py, po	Cu, Ni, Zn
14d cont.		4	51	270	-40	5	465	py, cp, tour	Cu, Ni, Zn, Ag

GDIF FORM NO. 3

PHYLLIS TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
14e	Derosier Nickel & Copper Mines Ltd.	5	51	330	-40	6	109	py, po, cp, tour, mag	Cu, Ni, Zn
14f		6	51		-50		141		Cu, Ni, Ag
14g		7	51	327	-45	2	166	py	Cu
14h		8	51	305	-45	12	376	tour, py, cp	Cu, Ni
15a	Empire Explorations	PB2	61						
15b		PB3	61						
15c		PB4	61						
15d		PB5	61						
15e		PB6	61						
15f		PB7	61						
16a	Empire Explorations	PB8	61	359	-61	1	151	py, cp	Cu
16b		PB9	61	358	-60	3	119	cp, py	
16c		WT44	62	141	-60	9	607	cp, py, lim, tour	
16d		WT46	62	138	-60	13	661	py, cp	
16e		WT48	62						
16f		WT49	62						
16g		WT50	62						
16h		WT52	62						

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
17a	Empire Explorations	PB10	61	325	-45	18	63	cp	Cu
17b		PB11	61	311	-45	5	69	py	
17c		WT33	61	318	-45	5	386	cp, py, tour	Cu
17d		WT34	61	319	-45	7	297	py, cp, tour	
18	Empire Explorations	WT1	61						
19a	Empire Explorations	WT2	61						
19b		WT6	61						
19c		WT25	61						
20a	Empire Explorations	WT54	62						
20b		WT61	62						
20c		WT45	62						
21	Empire Explorations	WT27	61	141	-40	10	1200	py, cp, mag	
22	Empire Explorations	WT29	61						

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
23a	Empire Explorations	WT36	61	139	-45	12	16		
23b		WT37	61	317	-35	7	301	cp, py, mag	Cu
23c		WT38	61	319	-46	7	206	cp, py, mag	Cu
24a	Empire Explorations	WT51	62						
24b		WT56	62						
24c		WT57	62						
24d		WT58	62						
24e		WT59	62						
24f		WT60	62						
24g		WT65	62						
25a	Empire Explorations	WT62	62						
25b		WT63	62						
25c		WT64	62						
25d		WT66	62						
26a	Empire Explorations	WT30	61						
26b		WT31	61						
26c		WT32	61						
26d cont.		WT39	61						

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
26e	Empire Explorations	WT40	61						
26f		WT41	61						
26g		WT53	62						
27a	Empire Explorations	WT28	61						
27b		WT35	61						
27c		WT42	61						
28a	Frontenac Exploration & Development Co. Ltd. - also in Temagami Mining Co. files	51	52	343	-44	14	656	py, cp, tour	Cu, Ni
28b		52	52	165	-37	17	626	py	Cu, Ni, Co
28c		58	52	165	-44	16	530	tour, py	Cu, Ni, Co
28d		54	52	342	-46	23	878	py, cp, mag	Cu, Ni, Co
28e		55	52	165	-39	15	570	py, cp, tour	Cu, Ni, Co
28f		61	52	169	-66	12	354	py, cp, tour	Cu, Ni, Co
28g		68	52	142	-42	8	216	py, cp, tour	Cu, Ni, Co
28h		66	52	166	-47	24	376	hem	Cu, Ni, Co
28i		64	52	114	-45	16	354	py, cp, tour	Cu, Ni, Co
28j		69	52	158	-42	7	200	py, cp, tour	

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
29	Frontenac Exploration & Development Co. Ltd.	70	52	114	-45	34	206	py, cp	
30a	Frontenac Exploration & Development Co. Ltd.	84	52	346	-45	10	461	py, cp	
30b		86	52	348	-45	8	430		
31	Frontenac Exploration & Development Co. Ltd.	87	52	336	-50	8	586	py	
32a	Frontenac Exploration & Development Co. Ltd.	117	53	153	-45	72	90	py, cp	
32b		119							
33a	Frontenac Exploration & Development Co. Ltd.	94	52	160	-59	30	42	cp, py	
33b		109	53	315	-45	76	76		
34a	Frontenac Exploration & Development Co. Ltd.	100	53	162			756 HOR		
34b		102	53	163	-71	75	991	py	
34c		104	53	165			786 HOR		
34d		120	53	130			815 HOR		

HOR - Length of Horizontal Component, Dip Unknown.

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
35	Frontenac Exploration & Development Co. Ltd.	101	53	153	-52	11	832	cp	
36a	Frontenac Exploration & Development Co. Ltd.	97	53	158	-61	50	361	cp, py	
36b		99	53	158					
37	Key Mineral Investigations Ltd.	K-63-3	63	-	-90	4	360		
38	International Cobalt & Silver Mining Co. Ltd.	1	58	-	-90	120	120		
39	International Cobalt & Silver Mining Co. Ltd.	2	58	-	-90	101	1002		
40	International Cobalt & Silver Mining Co. Ltd.	3	58	-	-90	192	782		
41	International Cobalt & Silver Mining Co. Ltd.	4	58	-	-90	97	475	cp	

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
42	International Cobalt & Silver Mining Co. Ltd.	1	56	018	-65	266	699	py, cp	
43	International Cobalt & Silver Mining Co. Ltd.	2	56	335	-43	15	679		
44	International Cobalt & Silver Mining Co. Ltd.	3	56	-	-90	35	761		
45	Keevil, N.B. (probably drilled by Key Mineral Investigations Ltd.)	K-67-6	67	-	-90	112	700	py, cp	
46a	Key Mineral Investigations Ltd.	K-63-3	63	-	-90	4	718	py, cp	
46b		K-64-4	64	265	-55	3	779	py, cp	
47	Key Mineral Investigations Ltd.	K-63-4	63	300	-50	20	724	py, cp	

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
48	Min-Ore Mines Ltd.	1	56	000	-64	34	865	py	
49	Min-Ore Mines Ltd.	2	56	-	-90	47	633	py, cp	
50	Myteque Mines Ltd.	1	56	-	-90	0	832		
51a	Offshore Mines Ltd.	151	53	349	-47	6	127		
51b		152	53	340	-45	5	180		
51c		153	53	002	-38	0	48	py	
51d		154	53	005	-45	6	87	cp, py	
51e		155	53	011	-41	11	84	cp, py	
51f		156	53	014	-45	5	79	cp, py	
51g		157	53	025	-44	4	54	cp, py	
52a	Offshore Mines Ltd.	110	53	131	-44	36	375	py, cp	Cu, Ni
52b		113	53	340	-45	37	291	py, cp	
52c		116	53	340	-71	26	393	py, cp	
53	Offshore Mines Ltd.	99	53	332	-51	28	203		

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
54a	Offshore Mines Ltd.	161	53	036	-45	0	122	py, cp	
54b		162	53	035	-45	0	148		
55	Offshore Mines Ltd.	1	52	340	-40	3	830	py	
56a	Copperfields Mining Corp. Ltd.	823	69	140	-50	32	310	py, cp	
56b		828	69	140	-51	32	349	py, cp	
57a	Copperfields Mining Corp. Ltd.	867	70	140	-66	5	400	py, cp, hem, tour	Cu, Ni
57b		868A	70	140	-79	5	450	py, cp, hem	Cu, Ni, Co
57c		868	70	140	-80	5	123		
57d		878	70	119	-55	20	306	py, cp, hem, tour, mag	Cu, Ni
57e		879	70	119	-55	12	414	py, cp, G	Cu, Ni
	Few logs are available for the remaining drill holes. Most of the information was gleaned from drillhole maps and sections.								
58	Timagami Mining Co. Ltd., Skunk Lake	SK-15	62	090	-75	0	131	cp, py, hem, lim	

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
59	Timagami Mining Co. Ltd., Skunk Lake	SK-13	61	270	-74	0	106		
60	Timagami Mining Co. Ltd., Skunk Lake	SK-14	61	000	-48	0	134		
61	Key Mineral Investigations Ltd. in Timagami Mining Co. Ltd., Temagami Mine	K-62-1	62	285	-60	4	790	cp	
62	Key Mineral Investigations Ltd. in Timagami Mining Co. Ltd., Temagami Mine	K-62-2	62	-	-90	6	725	tour	
63	Temagami Mining Co. Ltd.	TM-57-1	57		-45	13	298		
64	Temagami Mining Co. Ltd.	TM-57-2	57		-50	15	562		

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
65a	Temagami Mining Co. Ltd.	232	55	145	-60		550	py	Cu
65b		233	55	145	-43	32	330	py	Cu
65c		234	55	145	-45		348	py	Cu
66	Temagami Mining Co. Ltd.	308	55	155	-45	52	223		
67a	Temagami Mining Co. Ltd.	316	55		-45	0	268		
67b		343	56	140					
67c		344	56	140					
67d		345	56	140					
67e		346	56	140					
67f		347	56	140					
67g		348	56	140					
67h		349	56	140					
67i		350	56	140					
67j		357	56	140					
67k		S-63	56						
68a	Temagami Mining Co. Ltd.	204	55	155	-45	0	380	py, cp, tour	
68b		300	55	335	-45	10	223	tour	

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
69	Temagami Mining Co. Ltd.	321	55	000	-45	0	126	py	
70	Temagami Mining Co. Ltd.	313	55	300	-55	64	301		
71	Temagami Mining Co. Ltd.	315	55	300	-60	104	104		
72a	Temagami Mining Co. Ltd.	279		112			200 HOR		
72b		276		112			182 HOR		
72c		285		112			154 HOR		
72d		284		112					
72e		292		112			232 HOR		
72f		295		112			318 HOR		
72g		288	56	115	-46	25	565	py, cp	
72h		289	56	115					
72i		290		115					
72j		294	56	115	-52	18	507	py, cp	
72k		441		112			141 HOR		

HOR - Length of Horizontal Component, Dip Unknown.

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
73a	Temagami Mining Co. Ltd.	354	56	180	-60	32	608	py, cp	
73b		361	56	180	-45	19	185		
73c		364	56	000					
74	Temagami Mining Co. Ltd.	362							
75	Temagami Mining Co. Ltd.	363							
76a	Temagami Mining Co. Ltd.	356							
76b		359							
77	Temagami Mining Co. Ltd.	370							
78a	Temagami Mining Co. Ltd.	365							
78b		371							
78c		371-2							
78d		372							
78e		374							

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cont.

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
cont.									
78f	Temagami Mining Co. Ltd.	374-5							
78g		375							
79a	Temagami Mining Co. Ltd.	376							
79b		376-7							
79c		377							
79d		380							
79e		381-2							
79f		382							
80a	Frontenac Exploration & Development Co. Ltd.	72	53						
80b		77	53						
80c		79	53						
81a	Temagami Mining Co. Ltd.	761							
81b		763							
81c		767							
81d		770							
cont.									

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
cont.									
81e	Temagami Mining Co. Ltd.	773							
81f		774							
81g		779							
81h		780							
81i		781							
81j		782							
81k		783							
81l		784							
81m		786							
81n		787							
81o		788							
81p		789							
81q		790							
82	Frontenac Exploration & Development Co. Ltd.	118	53	165			275 HOR.	py	
83a	Temagami Mining Co. Ltd.	303	55	150					
83b		334		320					
83c		334B		320					
83d		336		320			242 HOR		

HOR - Length of Horizontal Component, Dip Unknown.

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
84a	Temagami Mining Co. Ltd.	312	55	140			218 HOR	cp, py	Cu, Ni, Co
84b		314	55	140				cp, py	Cu, Ni, Co
84c		317	55	140				cp, py	Cu, Ni, Co
84d		319	55	140	-60	30	556	cp, py, hem	Cu, Ni, Co
84e		S-57	-		-90				
84f		S-58	-		-90				
84g		S-60	-		-90				
84h		S-61	-		-90				
84i		S-62	-		-90				
85a	Temagami Mining Co. Ltd.	301	57	140				cp, py	Cu
85b		304	57	320					
85c		304A	57	320			115 HOR	cp, py	Cu
85d		306	57	140				cp, py	Cu
85e		307	57	140			275 HOR	cp, py	Cu
85f		309	57	140			150 HOR	cp, py	Cu
86a	Temagami Mining Co. Ltd.	355	57	140					
86b		467	60	140			282 HOR		
86c		469	60	140			288 HOR		

HOR- Length of Horizontal Component, Dip Unknown.

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
87a	Temagami Mining Co. Ltd.	351	57	140					
87b		352	57	140					
87c		353	57	140					
87d		358	57	140					
87e		360	57	140					
88	Temagami Mining Co. Ltd.	383	57						
89a	Temagami Mining Co. Ltd.	302	57	147					
89b		373	57	140					
89c		385	57	-	-90				
89d		338	57	140					
89e		339	57	140					
89f		203	57	147				cp, py	Cu, Ni, Co
89g		378	57	012					
89h		379	57	012					
90	Frontenac Exploration & Development Co. Ltd.	115	53	140					

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
91	Frontenac Exploration & Development Co. Ltd.	124	53	150					
92a	Temagami Mining Co. Ltd. (possibly drilled by Offshore Mines Ltd.)	164	53	000	-45	6	1960	py	
92b		166	53	000					
92c		168	53	000					
92d		170	53	000					
92e		165	53	000					
92f		167	53	000					
92g		169	53	000					
92h		171	53	000					
92i		172	53	000					
92j		174	53	000					
93a	Frontenac Exploration & Development Co. Ltd.	125	53	-	-90				
93b		126	53	-	-90				
93c		127	53	-	-90				

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
94a	Frontenac Exploration & Development Co. Ltd.	82	52	131	-62	0	788	cp	Cu, Ni, Co
94b		85	52	131	-80	59	993		Cu, Ni, Co
95a	Frontenac Exploration & Development Co. Ltd.	53	52	130			230 HOR	cp, py	
95b		56	52	130			90 HOR	cp, py	
95c		57A	52	130			55 HOR		
95d		59	52	140			215 HOR	cp, py	
95e		59A	52	130					
95f		60	52	140			111 HOR	cp, py	
95g		62	52				49 HOR		
95h		63	52	135			191 HOR	cp, py	
95i		65	52	135					
95j		67	52	135			46 HOR		
95k		71	52	135			135 HOR	cp, py	
95l		73	53	117			171 HOR		
95m		74	53	135			72 HOR	cp, py	
95n		75	53	132	-49	5	273 HOR	py	Cu, Ni, Co
95o		76	53	130			160 HOR		
95p		78	53	140			138 HOR		
95q		80	53	132			148 HOR		
95r		83	53	147			224 HOR	cp, py	

HOR - Length of Horizontal Component, Dip Unknown.

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
96a	Temagami Mining Co. Ltd.	248		112			350 HOR		
96b		230		131			170 HOR		
97a	Frontenac Exploration & Development Co. Ltd.	96	53	150			79 HOR		
97b		98	53	150			109 HOR		
98a	Frontenac Exploration & Development Co. Ltd.	121	53	-	-90				
98b		122	53	-	-90				
98c		123	53	-	-90				
99a	Temagami Mining Co. Ltd., Orebody #3	S-65					51		
99b		S-66					64		
99c		S-67					40		
99d		S-68					22		
99e		S-69							
99f		S-70					47		
99g		S-71							
99h		S-74					25		
99i		S-77					30		
99j		S-78					55		
cont.									

HOR - Length of Horizontal Component, Dip Unknown.

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
cont.									
99k	Temagami Mining Co. Ltd., Orebody #3	S-79					27		
99l		S-87					40		
100a	Temagami Mining Co. Ltd.	225	55	294	-46	6	136	tour, py, cp	Cu
100b		242		112			190 HOR		
100c		243		112			138 HOR		
100d		244		112	-48	32	282	cp	Cu
100e		246		075	-48	27	251	cp	
100f		247		112	-48	35	277	cp	Cu
100g		249A		112	-43	34	378	cp	Cu
100h		250		112					
100i		251		76			98 HOR		
100j		251A		257			115 HOR		
100k		252		112	-45	35	308	cp	Cu
100l		253		112	-45	38	293	cp	Cu
100m		254		112	-45	40	275	cp	Cu
100n		255		112	-45	36	270		
100o		256		112	-50	0	369	cp	Cu
100p		257							
cont.									

HOR - Length of Horizontal Component, Dip Unknown.

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
cont.									
100q	Temagami Mining Co. Ltd.	258		112	-80	44	92	cp	Cu
100r		259		112	-55	37	199	cp	Cu
100s		260		112	-58	32	168	cp	Cu
100t		261		112					
100u		261A		112					
100v		261B			-67	35	143	cp	Cu
100w		261C							
100x		261D		112					
100y		262		112	-64	31	163	cp	Cu
100z		263		112	-50	40	146	cp	Cu
100aa		264		112			148 HOR		
101a	Temagami Mining Co. Ltd.	265		112					
101b		266		112	-71	25	116	cp	Cu
101c		267		112					
101d		268		112					
101e		269		112			278 HOR		
101f		270		112	-48	33	245		
101g		271		112					
101h cont.		273		112					

HOR - Length of Horizontal Component, Dip Unknown.

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
cont.									
101i	Temagami Mining Co. Ltd.	274		112					
101j		274C		112					
101k		277		112					
101l		280		112			300 HOR		
101m		293		112			228 HOR		
102a	Temagami Mining Co. Ltd.	401		112					
102b		402		112					
102c		404		112					
102d		405		112					
102e		406		112					
102f		407		112			230 HOR		
102g		408		112			215 HOR		
102h		409		112			230 HOR		
102i		411		112			204 HOR		
102j		412		112			215 HOR		
102k		422	-		-90				
103a	Temagami Mining Co. Ltd.	205	54	294	-45	25	120	cp, py, tour	Cu, Pt, Co, Ni, Au
103b cont.		206	54	294	-45	26	175	cp, py	Cu

HOR - Length of Horizontal Component, Dip Unknown.

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
cont.									
103c	Temagami Mining Co. Ltd.	207	54	294	-42	24	127	cp, py, sp, tour	Cu, Au, Ag
103d		208	54	294	-45	25	118	tour, py, cp	Cu
103e		210	54	294	-42	25	124	cp, py	Cu
103f		211	54	294	-45	20	112	tour, py, cp	Cu
103g		212	54	294	-45	10	143	tour, cp, py, sp	Cu
103h		213	54	294	-45	18	231	cp, tour, py	Cu
103i		214	54	294	-45	11	32	tour, py, cp	Cu
103j		215	54	294	-45	8	114	py, tour, cp	Cu
103k		216	54	294	-45	14	120	py, cp	Cu
103l		217	54	294	-45	7	148	py, tour, cp	
103m		218	54	294	-42	9	162	tour, py, cp	Cu
103n		219	54	294	-42	15	143	tour, py, cp	Cu
103o		220	54	294	-47	11	137	tour, py, cp, hem	Cu
103p		221	54	294	-47	10	180	tour, py, cp,	Cu
103q		222	54	294	-45	23	153	py, cp, tour, gn, sp	Cu
103r		223	55	294	-45	19	180	cp, py, tour	Cu
103s		224	55	294	-44	17	137	cp, tour, py	cu
103t		226	55	294	-46	30	161	tour, cp, py	Cu
103u		227	55	294	-60	25	136	py, cp, tour	Cu
103v cont.		228	55	294	-75	24	161	tour, py, cp	Cu

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
cont.									
103w	Temagami Mining Co. Ltd.	235		294					
103x		236		294					
103y		237		294					
103z		245		-	-90				
104a	Temagami Mining Co. Ltd.	428		-	-90				
104b		429		320			370 HOR		
104c		430		320			197 HOR		
104d		431		320					
104e		432		328			215 HOR		
104f		432A		328					
104g		433		-	-90				
104h		434		320			250 HOR		
104i		435		320			274 HOR		
105a	Temagami Mining Co. Ltd.	229	55	294	-80	33	629	hem, py, cp, mag	Cu, Ni
105b		240		237			100 HOR		
105c		241		054			202 HOR		
105d		413		-	-90				
105e cont.		414		-	-90				

HOR - Length of Horizontal Component, Dip Unknown.

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log.	Assay Data Included for
cont.									
105f	Temagami Mining Co. Ltd.	415		-	-90				
105g		416		-	-90				
105h		417		-	-90				
105i		418		-	-90				
105j		420		-	-90				
105k		421		-	-90				
105l		425		-	-90				
105m		426		-	-90				
105n		427		-	-90				
106a	Temagami Mining Co. Ltd.	366		-	-90				
106b		367		-	-90				
106c		368		-	-90				
106d		369		-	-90				
106e		386		139			342 HOR		
106f		388		148			349 HOR		
106g		389		140			31 HOR		
106h		341		-	-90				
106i		S-11		-	-90				
106j		S-91		-	-90				

HOR - Length of Horizontal Component, Dip Unknown.

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
107a	Temagami Mining Co. Ltd.	445	57	320			313 HOR	cp, py	Cu
107b		447	57	320			357 HOR	cp, py	Cu
107c		448A	57	320			438 HOR	cp, py	Cu
107d		449	57	320			323 HOR	cp, py	Cu
107e		450	57	320			382 HOR	cp, py	Cu
107f		452	57	320			112 HOR	cp, py	Cu
107g		453	57	327			182 HOR		
108a	Temagami Mining Co. Ltd.	272		163			768 HOR		
108b		275A		163			460 HOR		
108c		278		162			432 HOR		
108d		282		163			305 HOR		
108e		283		162			290 HOR		
108f		287	56	163	-51	67	374	py, cp	
108g		437		-	-90				
108h		438		-	-90				
108i		439		-	-90				
108j		446		164			161 HOR		

HOR - Length of Horizontal Component, Dip Unknown.

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
109a	Temagami Mining Co. Ltd.	440		-	-90				
109b		291		-	-90				
110	Temagami Mining Co. Ltd.	180		344			1400 HOR	cp, py	
111	Temagami Mining Co. Ltd.	451		253			238 HOR		
112a	Temagami Mining Co. Ltd.	S-1		-	-90				
112b		S-2		-	-90				
112c		S-3		-	-90				
112d		S-4		-	-90				
112e		S-5		-	-90				
112f		S-6		-	-90				
112g		S-7		-	-90				
112h		S-8		-	-90				
112i		S-9		-	-90				
112j		S-10		-	-90				
112k		S-11		-	-90				
1121		S-12		-	-90				
112m		S-13		-	-90				

HOR - Length of Horizontal Component, Dip Unknown.

GDIF FORM NO. 3

PHYLLIS TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
112n	Temagami Mining Co. Ltd.	S-14		-	-90				
112o		S-15		-	-90				
112p		S-16		-	-90				
112q		S-17		-	-90				
112r		S-18		-	-90				
112s		S-19		-	-90				
112t		S-20		-	-90				
112u		S-21		-	-90				
112v		S-22		-	-90				
112w		S-23		-	-90				
112x		S-24		-	-90				
112y		S-25		-	-90				
112z		S-26		-	-90				
112aa		S-27		-	-90				
112bb		S-28		-	-90				
112cc		S-29		-	-90				
112dd		S-30		-	-90				
112ee		S-31		-	-90				
112ff		S-32		-	-90				

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
113a	Temagami Mining Co. Ltd.	324	55	135				cp, py	Cu, Ni, Co
113b		325	55	135				cp, py	Cu, Ni, Co
113c		326	55	140			220 HOR	cp, py	Cu, Ni, Co
113d		327	55	140				cp, py	Cu, Ni, Co
113e		329	55	140				cp, py	Cu, Ni, Co
113f		332	55	-	-90				
113g		381	55	-	-90				
114	Frontenac Exploration & Development Co. Ltd.	111	53	340			405 HOR		
115	Frontenac Exploration & Development Co. Ltd.	112	53	332			325 HOR		
116	Frontenac Exploration & Development Co. Ltd.	114	53	332			480 HOR		
117a	Temagami Mining Co. Ltd.	330	57	140			612 HOR		
117b		331	57	142			428 HOR		
117c		333	57	147			408 HOR		
117d		335	57	145			225 HOR		

HOR - Length of Horizontal Component, Dip Unknown.

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
118a	Temagami Mining Co. Ltd.	322	55					cp, py	Cu, Ni, Co
118b		323	55					cp, py	Cu, Ni, Co
118c		340	55	140					
118d		384	55	140					
118e		328	55	140					
119a	Temagami Mining Co. Ltd.	S-59		-	-90				
119b		S-64		-	-90				
119c		S-56		-	-90				
119d		S-55		-	-90				
119e		S-54		-	-90				
119f		472		140			379 HOR		
120a	Temagami Mining Co. Ltd.	201		110		3	191	cp, py	
120b		202		110				cp, py	
120c		337							
120d		490		140					
120e		491		140					
120f		492		140					
120g		493		142					

HOR - Length of Horizontal Component, Dip Unknown.

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
120h	Temagami Mining Co. Ltd.	494		142					
120i		495		142					
120j		496		138					
120k		497		140					
120l		498		138			153 HOR		
120m		499		138					
120n		500		144			136 HOR		
120o		501		144			78 HOR		
120p		502		140			161 HOR		
120q		503		140			123 HOR		
120r		504		140					
120s		505		140					
120t		506		140					
120u		507		150					
120v		508		150					
120w		509		140			115 HOR		
120x		510		140					
121a	Temagami Mining Co. Ltd.	294A							
121b		296		112			409 HOR		

HOR - Length of Horizontal Component, Dip Unknown.

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
121c	Temagami Mining Co. Ltd.	297		112			401 HOR		
121d		298		112			494 HOR		
121e		299A		112			435 HOR		
121f		419		112			444 HOR		
121g		423							
121h		424		-	-90				
122a	Temagami Mining Co. Ltd.	442		141			100 HOR		
122b		443		112			168 HOR		
122c		444		-	-90				
122d		286		112			282 HOR		

HOR - Length of Horizontal Component, Dip Unknown.

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
1	By: N.B. Keevil, Mining Geophysics Corp. Ltd. For: Abex Mines Ltd. Phyllis and Scholes Twp.	Magnetic	?	NE/SW SE/NW	400'
9	By: N.B. Keevil, Mining Geophysics Corp. Ltd. For: Geo-Scientific Prospectors Ltd. Phyllis and Scholes Twp.	Magnetic	?	NE/SW SE/NW	400'

GDIF FORM NO. 4

PHYLLIS TOWNSHIP

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
9	dithizone method	heavy metals	By: Mining Geophysics Corp. Ltd. For: Geo-Scientific Prospectors Ltd. 1953	Phyllis Twp. AF, Geo-Scientific Prospectors Ltd. - no map available

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result
	No data available as of November 1, 1984.			

LANDSAT COLOUR PHOTO - NTS 31/M

LS	TR	FR	Date of Imagery	Band	Cycle/Day
2	20	27	13/10/81	C_1	136/10

on file in Cobalt office

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Cobalt

Geo-Scientific Prospectors Ltd. (in Phyllis Twp. AF)

Abex Mines Ltd. "Gull Lake Property"

International Cobalt and Silver Mining Co., The

North American Rare Metals Ltd.

Temagami Mining Co. Ltd.

Copperfields Mining Corporation Ltd. (see clipping file for Silverfields)

Abex Mines Ltd. "Emerald Lake Property"

Atlas Yellowknife Mines

Niemetz, O.J. (C.J.)

Knight-Derosier (see Temagami Mining)

Feld Temagami

ODM GENERAL INDEX SEARCH

Words searched:
Abex Mines Ltd.
Atlas Yellowknife Mines Ltd.
Billfeld (Billfield)
Byberg, A.
Cattle Island
Copperfield Mining Corp. Ltd.
Cross Bay
Cummings Lake
Dean Lake
Denedus Island
Denedus Point
Derosier, Dewey
Derosier Nickel & Copper Mines Ltd.

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	Rocks	* 10		175
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	Magnetite, analysis of	* 10		169
	Timagami Lake, Nip.			
	Agricultural land	*R.C.[2]		56, 58
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	Beauty	* 5		203
	Compared with Larder Lake	* 16		204
	Copper	*R.C.		56
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		*N.O.		112
	pyrites	* 19	2	59
	Depth	* 5		203
	Fault, map showing	* 14	2	34, 35
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	Fauna of district	*R.C.		58
	Fish	* 10		100
	Galena near	*R.C.		56
		1		175
	Geology	* 10		172-175
	See also rocks below			
	Glacial origin	*R.C.		15
	Striae	* 9		178
	Gold	*R.C.		25, 56
		*N.O.		112
		* 10		169
		* 20	2	15
		* 21	1	216

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ODM GENERAL INDEX SEARCH

Words searched:
Empire Explorations Ltd.
Feld Temagami Mines Ltd.
Feld, William
Frontenac Exploration & Development Co. Ltd.
Geo-Scientific Prospectors Ltd.
Grieve, R.B.
Gull Lake
High Rock Island
International Cobalt & Silver Mining Co. Ltd.
International Copper & Cobalt Mining Co. Ltd.
Island 725

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	Graphite	* 10		168
	Iron on and near	*R.C.		22
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		* 12		20, 113
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		* 19	2	58
	See also Timagami iron range			
	Iron pyrites	*R.C.		56
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		* 16	1	149, 150
		* 16	2	31
	Map, coloured. With vol. 10			
	Minerals in or near	*R.C.		56-58
		*N.O.		88, 112
	Mining in vicinity, reports by Corkill	* 18	1	132
		* 19	1	124
	Mispickel. See Timagami forest reserve			
	Outlets, ancient	*R.C.		15
		* 5		202
	modern	*R.C.		15
		*N.O.		112
	Pyrrhotite	* 14	3	145
		*N.O.		88
	Report by Coleman on country NE of	* 9		172-174

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Words searched:

Island 824
Island 198
Island 203
Island Bay
Keevil, N.B.
Key Minerals Investigations Ltd.
Knight, H.W.
Longbow Lake
Min-Ore Mines Ltd.
Myteque Mines Ltd.
Narrows Island
Niemetz, C.J.
North American Rare Metals Ltd.
Offshore Mines Ltd.

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	Shape	* 19	2	119
	Silver	*N.O.		112
	Trees on and near	*R.C.		58
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2	Knight, H.W.			
	of Goldale Mines Ltd.	31	10	33

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Words searched:
Pebble Uranium Mines Ltd.
Phillips Bay
Phyllis Township
Portage Bay
Shiningwood Bay
Skunk Lake
Smoothrock Island
Temagami Mining Co. Ltd.
Timagami Island
Timagami Lake

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2	Timagami Island, Timagami lake			
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4	Atlas Yellowknife Mines Ltd.			
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	report and plan	* 51	6	30, 31
	Denedus Point, Timagami l.			
	Gold claims	* 51	6	30, 31, 36
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	Gold claims, Phyllis Twp.,			
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	Feld, William			
	Gold claims, Phyllis Twp.	* 51	6	30
	Niemetz, C.J.			
	Gold claims, Phyllis Twp.			
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	Phyllis Twp., Nip			
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4	Shiningwood Bay, Timagami 1.			
	Mineralization near	* 51	6	42
	Rocks	* 51	6	18, 20, 21
	Timagami Island, Timagami 1.			
	Copper	* 51	6	25
	Iron formation	* 51	6	10
	Timagami Lake Area, Nip.			
	N.E. portion, report on by W.W. Moorhouse	* 51		6
5	Abex Mines Ltd.			
	Incorporated	61	1	46
	Derosier Nickel and Copper Mines Ltd.			
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	Frontenac Exploration and Development Co. Ltd.			
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	Geo-Scientific Prospectors Ltd.			
	Incorporated	62	1	60
	Offshore Mines Ltd.			
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	Feld Temagami Mines Ltd.			
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	International Cobalt and Silver Mining Co. Ltd.			
	See Silver Crater Mines			
	International Copper and Cobalt Mines Ltd.			
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	of Pickle Crow Gold Mines	68	2	54
		69	2	54
	Teck-Hughes Gold Mines	69	2	61
	Temagami Mining co.	65	2	120
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		67	2	8
		68	2	4
		69	2	4
	Willroy Mines	69	2	7
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	of Eastern Mining and Smelting Corp.	65	2	107
		66	2	107
	Willroy Mines	65	2	7
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	Property Powell Twp.			
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	Myteque Mines Ltd.			
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	North American Rare Metals Ltd.			
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	Pebble Uranium Mines Ltd.			
	Incorporated	65	1	34
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	Copper mg. See Temagami Mining Co.			
	Temagami Mining Co. Ltd.			
	Capital; officers; operations:			
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	(1956)	66	2	7
	(1957)	67	2	8
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	Derosier Nickel and Copper Mines Ltd.			
	See Temagami Mining Co.			
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	Exploration by, Harris Twp.	GR 36		55
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	Teck Corp. Ltd.	73		64
	Teck-Hughes Gold Mines	70		6
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	Temagami Mining Co.	70		103
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	(1961)	71		110
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7	Timagami Area, Nip.			
	Copper mining. See Temagami Mining Co.			
	Silver mining claims	70		110
	Timagami Island, L. Timagami			
	Copper mining property	GR 28		25-27
	Timagami Lake, Nip.			
	Mineral deposits	GR 22		20, 21
	Rocks, notes and photo	GR 22		6-8 12-14
	Uranium claims near	GR 1		36
8	Gull Lake Prospect			
	Scholes Twp., Nipissing Dist.			
	mining property, report on	MRC 11		277-278
	North American Rare Metals Ltd.			
	Coleman Twp., Timiskaming Dist.	MRC 10		160-161
	Scholes Twp., Nipissing Dist.	MP 56		141
	Phillips Bay Pyrite, Copperfields			
	Strathcona Twp., Nipissing Dist.			
	Mining property, report on	MRC 5		41-42

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Phyllis Twp., Nipissing Dist.			
	copper	74		86
		75		85-86
		76		95-96
		77		84-85
		78		87-88
		79		59-60
		80		114-115
		MRC 2		201
	iron	MRC 11		274-275
	Copperfields Mine			
	Phyllis Twp., Nipissing Dist	MP 50		42
	Copperfields Mining Corp. Ltd.			
	S. Lorrain Twp., Timiskaming Dist.	GR 83		48-49
	report on Maidens Lake Group			
	Temagami area, Nipissing Dist.	74		86
		75		85-86
		76		95-96
		77		84-85
		78		87-88
		79		59-60
		80		114-115
		MP 18		6
		MP 25		4
		MP 32		60
		MP 35		5
		MP 46		36
	report on Phillips Bay			
	Pyrite Deposit	MRC 5		41-42
	Cummings Lake Prospect			
	Scholes Twp, Nipissing Dist.	MPBP 2		55
		MRC 11		275-276

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Skunk Lake Prospect			
	Phyllis Twp., Nipissing Dist.			
	mining property, report on	MRC 11		274-275
	Temagami Area, Nipissing Dist.			
	see also Timagami area, Nipissing Dist.			
	copper	MP 50		42
	iron	75		69-70
		76		76-77
	mining & expl. activity	MP 46		36
		MP 50		51
	Temagami Mine			
	Phyllis Twp., Nipissing Dist.			
	mining property report on	MRC 12		201
	Timagami Area, Nipissing Dist.			
	see also Temagami area, Nipissing Dist.			
	mining & expl. activity	MP 18		6
		MP 25		4
		MP 35		5
	summary of field work, 1969 by G. Bennett	MP 32		58-60
	summary of field work, 1970 by G. Bennett	MP 43		81-84
	Timagami Island Occurrence			
	Phyllis Twp., Nipissing Dist.	MRC 11		275

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
9	Abex Mines Ltd.			
	Scholes Twp., Nipissing Dist.	GR 170		57, 63
	Billfield Occurrence			
	Phyllis Twp., Nipissing Dist.			
	report on property	MDC 18		27
	Copperfields Mining Corp. Ltd.			
	N.E. Temagami area, Nipissing Dist.	GR 163		73, 106-107, 110-111
	Cummings Lake			
	Scholes Twp., Nipissing Dist.	GR 170		11, 12, 45
	Geo-Scientific Prospectors Ltd.			
	see also Copperfields Mining Corp. Ltd.			
	N.E. Temagami area, Nipissing Dist.	GR 163		107, 111
	Longbow Lake			
	Scholes Twp., Nipissing Dist.	GR 170		11
	Niemetz, C.J.			
	Scholes Twp., Nipissing Dist.			
	report on property	GR 170		66
	Niemetz, C.J. Occurrence			
	Phyllis Twp., Nipissing Dist.			
	report on property	MDC 18		27

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
9	North American Rare Metals Ltd.			
	Scholes Twp., Nipissing Dist.	GR 170		60
	Phyllis Twp., Nipissing Dist.			
	chalcopyrite	MP 70		102-103
	gersdorffite	MP 70		172
	gold	MDC 18		27
	millerite	MP 70		241
	pyrite	MP 70		301
	Skunk Lake			
	Scholes Twp., Nipissing Dist.	GR 170		17, 45, 60, 65

* Out of Print

N.O. - Report of the Survey and Exploration of Northern Ontario, 1900

R.C. - Report of the Royal Commission on the Mineral Resources of Ontario, 1890

I.O. - Report of the Iron Ore Committee

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Ayers, L.D., Lumbers, S.B., Milne, V.G., Robeson, D.W.	1971	Ontario Geological Map, East Central Sheet	ODMNA Map 2198	1:1 013 760
Card, K.D. et al	1971	Sudbury-Cobalt Sheet; Algoma, Manitoulin, Nipissing, Parry Sound, Sudbury & Timiskaming Districts, Ontario	ODMNA Map 2188	1:253 440
Card, K.D, Lumbers, S.B.	1977	Sudbury-Cobalt, NTS 31L/W, 31M/SW, 41I, 41P/S, Sudbury & AL 5 Districts, Ontario	OGS Map 2361	1:253 400
Card, K.D.	1980	Central Superior Province Compilation, NTS 41I	GSC Open File 690	1:250 000
		GEOPHYSICAL MAPS		
	1957	Lake, Timagami, Ontario, aeromagnetic	GSC Map 505G	1:63 360
	1965	Aeromagnetic map	GSC Map 1502G	1:63 360
	1978	Airborne gamma-ray spectrometry maps and profiles, Sudbury sheet	OGS Maps 1610-1648	1:250 000
Gupta, V.K., Wadge, D.R.	1980	Bouger Gravity and Generalized Geological Map. North Bay-Marten River, Districts of Nipissing and Sudbury	ODM Maps P.2297	1:100 000
Gupta, V.K.,	1981	A Gravity Study in North-Central Ontario, Districts of Sudbury, Nipissing and Timiskaming; in Summary of Field Work, 1982, edited by J. Wood et al, Ontario Geological Survey	OGS MP 100	No. 26 pp. 160-164

PHYLLIS TOWNSHIP

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOPHYSICAL MAPS		
Gupta, V.K.	1982	Gravity and Aeromagnetic Studies in North-Central Ontario; in Summary of Field Work, 1982, by J. Wood et al, Ontario Geological Survey	OGS MP 106	No. 24 pp. 165-167
GSC	1984	Sudbury, Ontario and Quebec, IMW, NL 16/17, geomagnetic anomaly map	GSC Map NL 16/17-M	1:1 000 000
		Aeromagnetic map	GSC Map 7076G	1:253 440
		Earth Physics Branch Gravity Map Series	EPB Maps No. 84 and No. 134	1:500 000
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
	1950	Capreol, topographic		
Chapman, L.J., Putnam D.F.	1973	Physiography of Southern Ontario: Physiography of Northwestern Portion of Southern Ontario	NTS 41I/NE	1:126 720
			ODM Map 2224	1:253 440
Chapman, L.J., Putnam D.F.	1975	Physiography of the Georgian Bay-Ottawa Valley Area, NTS 31/W & 41/E, Southern Ontario	ODM Map 2228	1:253 440
	1975	Lake Temagami topographic	NTS 41I/16	1:50 000
			NTS 41I/16E	1:50 000
			NTS 41I/16W	1:50 000
	1977	Gogama, topographic	NTS 41I	1:250 000
Gartner, J.F.	1979	Capreol Area, NTS 41I/NE, Sudbury & Nipissing Districts	NOEGTS 95 OGS Map 5001	1:100 000

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
	1982	Ontario Basic Map Sheets, Phyllis Township	MNR Maps 20 17 5700 51900 20 17 5600 52000 20 17 5700 52000	1:20 000
	1984	Islands in Lake Temagami	MNR Map 24c	1:63 360
		Phyllis Township Claim Map	MNR Map Plan No. M-567	1" = 40 ch.
		MINERAL POTENTIAL		
Meyn, H.D., Robertson, J.A.	1975	Iron Deposits of Ontario, East Central Sheet, NTS 31/W, 32/W, 41/N, 42, Cochrane & AL 5 Districts, Ontario	ODM Map P. 1043	1:1 013 760
Robertson, J.A. et al	1976	Mineral Potential Map of Ontario, East Central Sheet, NTS 31/NW, 32/W, 41/N, 42; Algoma, Sudbury, Nipissing, Thunder Bay and Timiskaming Districts, Ontario	ODM Map P. 1099	1:1 013 760
Jost, M.	1977	Nickel Deposits of Ontario, East Central Sheet, NTS 41/N, 42, 31/NW, 32/W; Sudbury & AL 5 Districts, Ontario	ODM Map P. 1062	1:1 013 760
		GEOCHEMICAL		
		No data available as of November 1, 1984.		

GDIF FORM NO. 9

PHYLLIS TOWNSHIP

SELECTED REFERENCES

GEOLOGICAL REPORTS AND MAPS

Author	Date	Title	Reference	Map Scales and/or Report Pages
Bell, R.	1892	Maps of parts of districts of Nipissing and Algoma exhibiting the country around Sudbury and eastward to Ottawa River	*OBM Annual Report, vol. 1 *OBM Map 1a	1:253 440
Barlow, A.E.	1899	Report on the Geology and Natural Resources Included by the Nipissing and Timiskaming Map Sheets, Comprising Portions of the District of Nipissing, Ontario and the County of Pontiac, Quebec	*GSC Annual Report, vol. X, pt. 1 *GSC Map 599	1:253 440
Young, G.A.	1907	On Surveys between Rabbit and Temagami Lake	*GSC Annual Report, vol. XVI, pt. A.	pp. 195-198
Barlow, A.E.	1908	Second Edition of a Report on the Geology and Natural Resources Included by the Nipissing and Timiskaming Map Sheets	*GSC Separate Report 962	
	1913	Excursions to Sudbury, Cobalt and Porcupine	*GSC Guide Book 7	
	1933	Lake Huron Sheet	*GSC Maps b i	1:506 880 1:1 108 800
Moorhouse, W.W.	1946	Northeastern portion of the Timagami Lake area, Nipissing District	*GSC Map 155A	1:506 880
	1942		ODM Annual Report, vol. 51, pt. 6	
	1958	Sudbury, Ontario	ODM Map 51e	1:63 360
Simony, P.S.	1960	Phyllis Township, District of Nipissing, Ontario	GSC Map 1063A ODM Map P. 78	1:506 880 1:15 840

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
	1966	Capreol	ODM Map P. 367	1:126 720
Simony, P.S.	1967	Geology of Northwestern Timagami Area, District of Nipissing, Ontario	ODM GR 28 ODM Map 2057	
Bennett, G.	1978	Geology of the Northeast Timagami Area, NTS 31L/13W, 32M/4W, 41I/16E, 41P/1E, Nipissing District, Ontario	OGS Report 163	1:126 720
Meyn, H.D.	1979	Uranium Deposits of the Cobalt Embayment; in Summary of Field Work, 1979, edited by V.G. Milne et al, Ontario Geological Survey	OGS MP 90	No. S 20 pp. 218-221
Wood, J.	1979	Regional Geology of the Cobalt Embayment, Districts of Sudbury, Nipissing and Timiskaming; in Summary of Field Work, 1979, edited by V.G. Milne et al, Ontario Geological Survey	OGS MP 90	No. 18 pp. 79-81
Meyn, H.D.; Matthews, M,K.	1980	Uranium Deposits of the Cobalt Embayment; in Summary of Field Work, 1980, edited by V.G. Milne et al, Ontario Geological Survey	OGS MP 96	No. S. 26 pp. 195-200
Wood, J.	1980	Regional Geology of the Cobalt Embayment, Districts of Sudbury, Nipissing and Timiskaming; in Summary of Field Work, 1980, edited by V.G. Milne et al, Ontario Geological Survey	OGS MP 96	No. 14 pp. 61-63
Long, D.G.F.	1981	The Sedimentary Framework of Placer Gold Concentrations in Basal Huronian Strata of the Cobalt Embayment; in Summary of Field Work, 1981, edited by J. Wood et al, Ontario Geological Survey	OGS MP 100	No. 34 pp. 218-223

GDIF FORM NO.9

PHYLLIS TOWNSHIP

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		
Ferguson, S.A.	1942	Banded iron formation of the Timagami area, Ontario	MA. Thesis, University of Toronto, Toronto	
Carlson, H.D.	1950	Intrusive rocks of Temagami District, Ontario	MA. Sc. Thesis, University of Toronto, Toronto	
Franklin, J.M.	1967	The Pyrite Zone of the Temagami Mine of Copperfields Mining Company, Temagami, Ontario	MA. Sc. Thesis, Carleton University, Ottawa	
Pye, E.G., Lovell, H.L., Bright, E.G., Petruk, W., et al	1972	Precambrian Geology and Mineral Deposits of the Timagami, Cobalt, Kirkland Lake and Timmins Region, Ontario	Guidebook, 24th Session, International Geological Congress, Canada, 1972, Field Excursion A39, 39b, C39	96p.
		* Out of Print		

GDIF FORM NO.9

NOTES AND ADDENDA

The exploration data map shows only the most important minerals found at each site. All the minerals noted are listed in the mineral occurrences or the drill hole data.

On the maps, only areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground than is shown.

The Temagami Mine operated from 1955 to 1972. The ore was removed from two open pits and one 2535' shaft and milled on site. The mine closed when the ore reserves were exhausted. Only drill holes which could be located on the company maps were recorded in the drill hole data. There are several maps in the Assessment Files showing numerous underground drill holes and the related geology. None of these are recorded in the drill hole data because of lack of space on the exploration data map. The Haileybury School of Mines received most of the mine data after the mine was closed.

The township was closed to staking in 1978 due to the Bear Island Indian Caution.

AIR PHOTOS - on file in Toronto

Only 1977 photos are available for viewing at the Public Service Centre, Rm. 1640, Whitney Block.

Photos can also be ordered from here for the years 1946, 1958 and 1970.

Year	Roll	Strip	Photo
1946	45	134	111-121
	43	135	35-45
	43	136	43-53
	42	137	74-84
	42	138	59-69
1958	055	4640	166-174
	056	4639	50-58
	056	4638	127-135
	057	4637	7-15
	057	4636	110-118
1970	40	4640	66-74
	39	4639	23-31
	39	4638	92-101
	39	4637	155-163
	49	4636	9-17
1977	12	4640	186-194
	11	4639	147-156
	11	4638	214-221
	78	4637	15-23

GDIF FORM NO.10

JOAN TOWNSHIP

SCHOLES TOWNSHIP

YATES TOWNSHIP

Langbow Lake

46°58'

80°08'

Gull Lake

Wingfoot I.

Cattle Island

Moore I.

Turner I.

Pinto Camp

Ogama I.

Temagami

Adanac

Northeast Arm

White Gables Camp

Loon Bay

Camp Can-Usa

TAILINGS

Island

Denedus Pt.

Shining Wood Bay

Denedus I.

Wabi-Kon

Lake

Narrows Island

Dean L.

Smoothrock I.

Camp Wigwasati

Camp Chimo

Temagami

of

South Arm

High Rock Island

Cross Bay

Pelican Pt.

Portage Bay

Kokekwabika

Camp Cochrane

Shunt Lake

Southwest Arm

Island Bay

1 2 4 5,6 8 9 10 11

Mile 0.5

Kilo

JOAN TOWNSHIP

Ontario

Ministry of Natural Resources

Hon. Michael Harris
Minister

Mary Mogford
Deputy Minister

Ministry of Northern Affairs

Hon. Leo Bernier
Minister

David Hobbs
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 235

(Map 1 of 3)

PHYLLIS TOWNSHIP

DISTRICT OF NIPISSING

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

YATES TOWNSHIP

EXPLORATION DATA FILE AREAS

Adanac
Northeast Arm
White Gables Camp
Moore I.
Turner I.
Temagami
Wingfoot L.
Pinto Camp
Ogama I.
Cattle Island
TAILINGS
Island
Shinnywood Bay
Denedus Pt.
Wabi-Kon
Denedus I.
Lake
Narrows Island
Temagami
Camp Chimo
Smoothrock
Camp Wigwasati
of
High Rock Island
Cross Bay
Island
Pelican Pt.
South Arm
Bay
Portage Bay
Kokelwabiko
Camp Cochrane
79°54'
80°01'

Gull Lake
Wingfoot I.
Pinto Camp
Ogama I.
Cattle Island
TAILINGS
Island
Shiningwood Bay
Denedus Pt.
Denedus I.
Wabi-Kon
Lake
Narrows Island
Temagami
Camp Chimo
Smoothrock I.
Camp Wigwasati
Dean
Shunk Lake
Southwest Arm
Island
Bay
Peninsula
McLean
South Arm
Camp Cochrane
Kakekwabika I.
Portage Bay
Pelican Pt.
High Rock Island
Cross Bay
Pats L.
Aileen L.
SCHOLES TOWNSHIP
YATES TOWNSHIP
VOGT TOWNSHIP
1
2
4
5,6
8
9
10
11

Ontario

Hon. Michael Harris
Minister

Hon. Leo Bernier
Minister

Mary Mogford
Deputy Minister

David Hobbs
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 235

(Map 1 of 3)

PHYLLIS TOWNSHIP

DISTRICT OF NIPISSING

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined. See listing in text pages.

Small area of exploration.

Wingfoot I.
Pinto Camp
Ogama I.
Cattle Island
Cam Con-Us
TAILINGS
TAILINGS
Island
Shiningwood Bay
Denedus Pt.
Denedus I.
Wabi-Kon
Lake
Narrows Island
Temagami
Camp Chimo
Smoothrock I.
Camp Wigwasati
Island
Bay
Peninsula
Camp Cochrane
Kakekwabika I.
McLean
McLean
High Rock Island
Cross Bay
Pelican Pt.
Portage Bay
Peninsula
Pats L.
Aileen L.
South Arm
of
YATES TOWNSHIP
VOGT TOWNSHIP
46°54'
80°01'

Longbow Lake

46°58'

80°08'

Gull Lake

Wingfoot I.

Camp

Cattle Island

Moore I.

Turner I.

Ogama I.

Temagami

Adanac

Northeast Arm

White Gold Camp

Loon Lodge

Camp Wanapitei

Camp Can-Usa

TAILINGS

PIPELINE

TAILINGS

Island

Denedus Pt.

Shimmerwood Bay

Wabi-Kon

Denedus I.

Lake

Narrows Island

Dean L.

Smoothrock I.

Camp Wigwasati

Shunt Lake

Southwest Arm

Island

Bay

Camp Chimo

of

South Arm

High Rock Island

Cross Bay

Pelican Pt.

Portage Bay

Kakekwabika

Camp

46°58'

80°08'

12

13

14

15

16

17

18

19

20

21

22

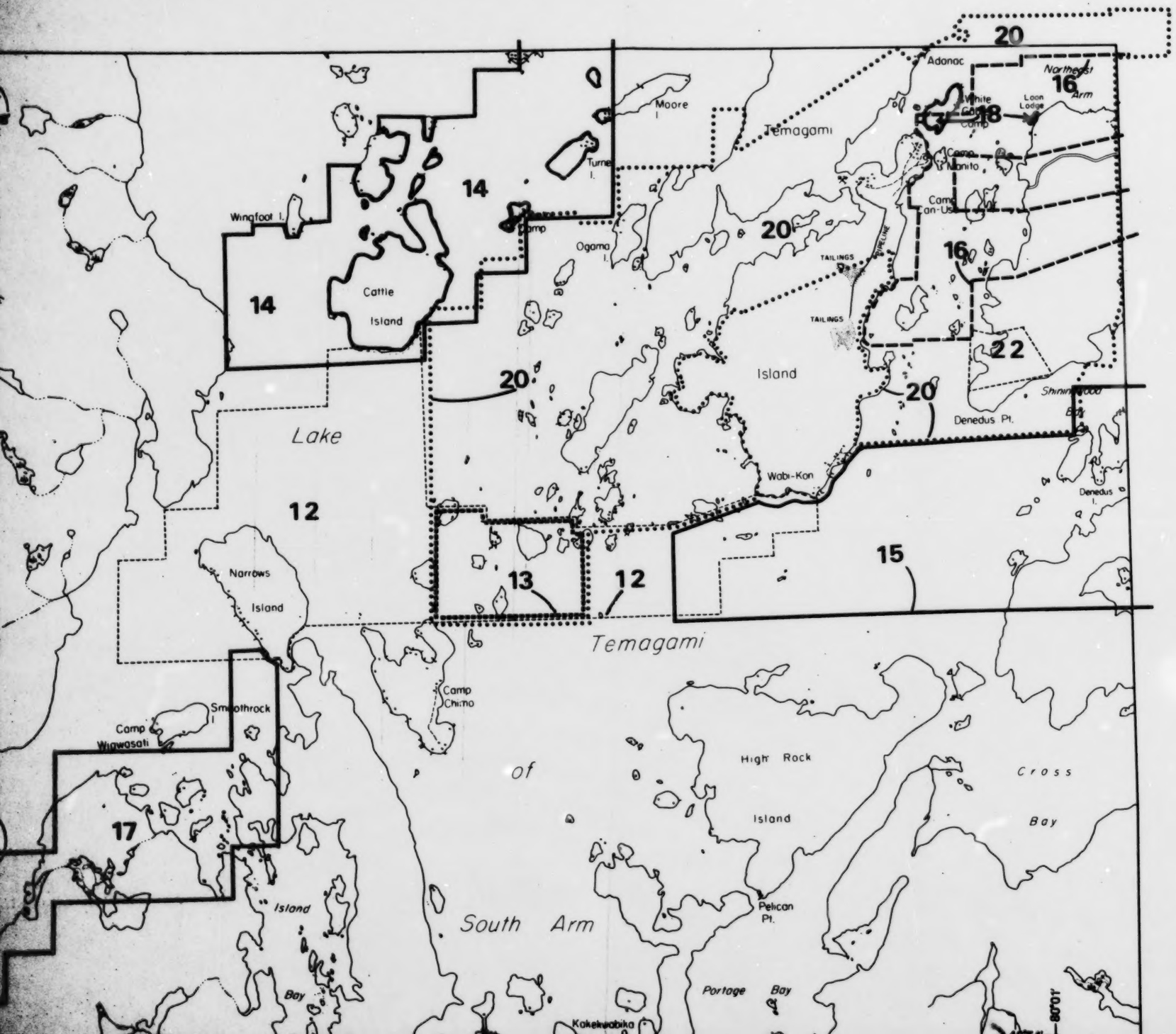
Ontario

GEOLOGICAL

PHYSIOGRAPHIC

Mile 0.5

Kilometre



Ontario

Ministry of Natural Resources

Hon. Michael Harris
Minister

Mary Mogford
Deputy Minister

Ministry of Northern Affairs

Hon. Leo Bernier
Minister

David Hobbs
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 235

(Map 2 of 3)

PHYLLIS TOWNSHIP

DISTRICT OF NIPISSING

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

Gull Lake
Wingfoot I.
Turner I.
Ogama I.
Cattle Island
14
20
TAILINGS
TAILINGS
PIPELINE
Manitou
Camp Can-Usa
16
22
Island
Shining Tree
Denedus Pt.
Denedus I.
Wabi-Kon
Lake
12
21
19
15
13
12
Narrows Island
Temagami
Camp Chimo
Dean L.
Smoothrock I.
Camp Wigwasati
Stunt Lake
21
17
Southwest
Arm
Island
Bay
McLean
Peninsula
of
South Arm
High Rock
Island
Cross Bay
Pelican Pt.
Portage Bay
Camp Cochrane
Kakekwabika
McLean
Peninsula
Pats L.
Aileen L.
46°54'
80°09'

Mary Mogford
Deputy Minister

David Hobbs
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 235

(Map 2 of 3)

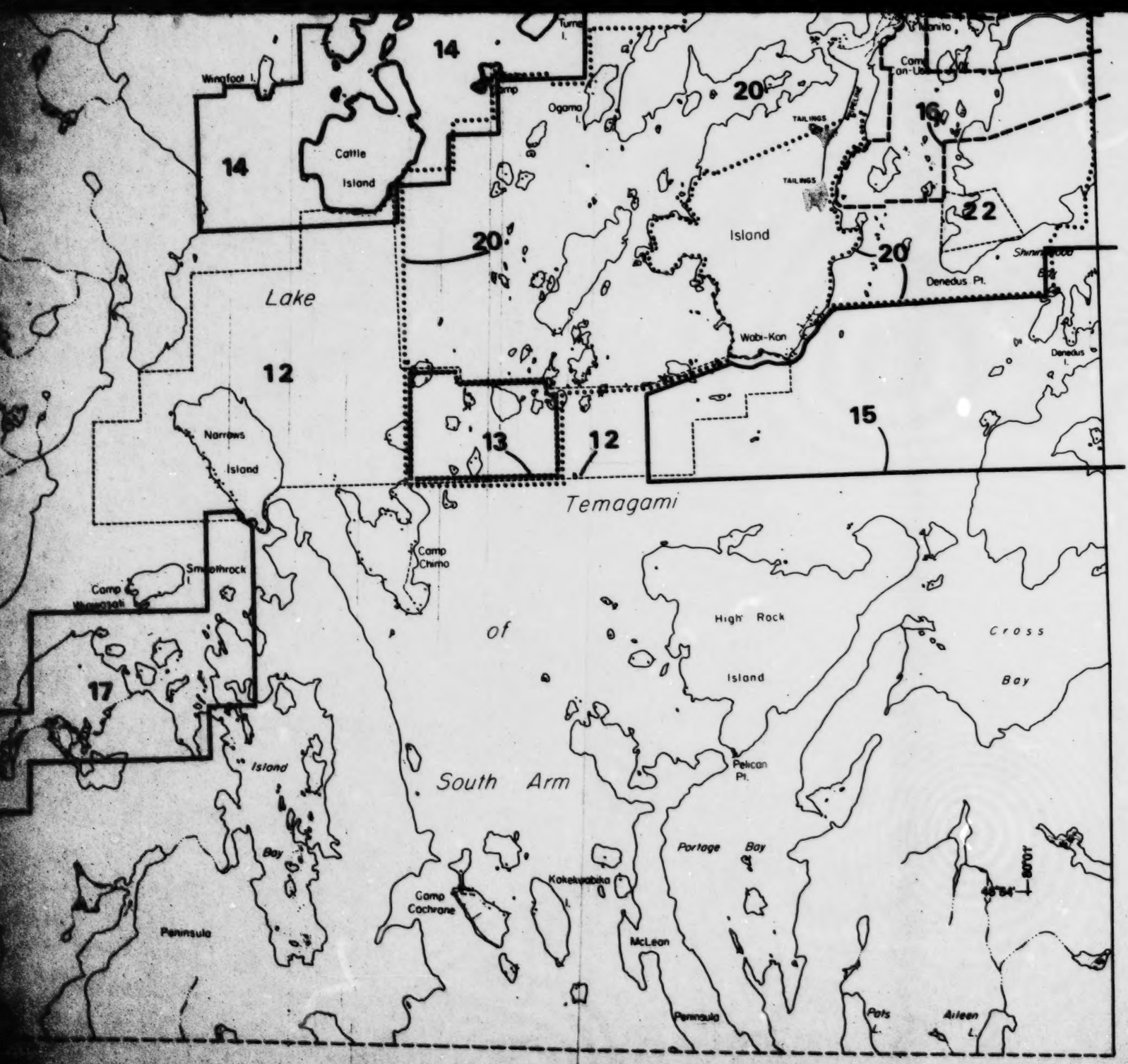
PHYLLIS TOWNSHIP

DISTRICT OF NIPISSING

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre



EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined. See listing in text pages.

Small area of exploration.

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

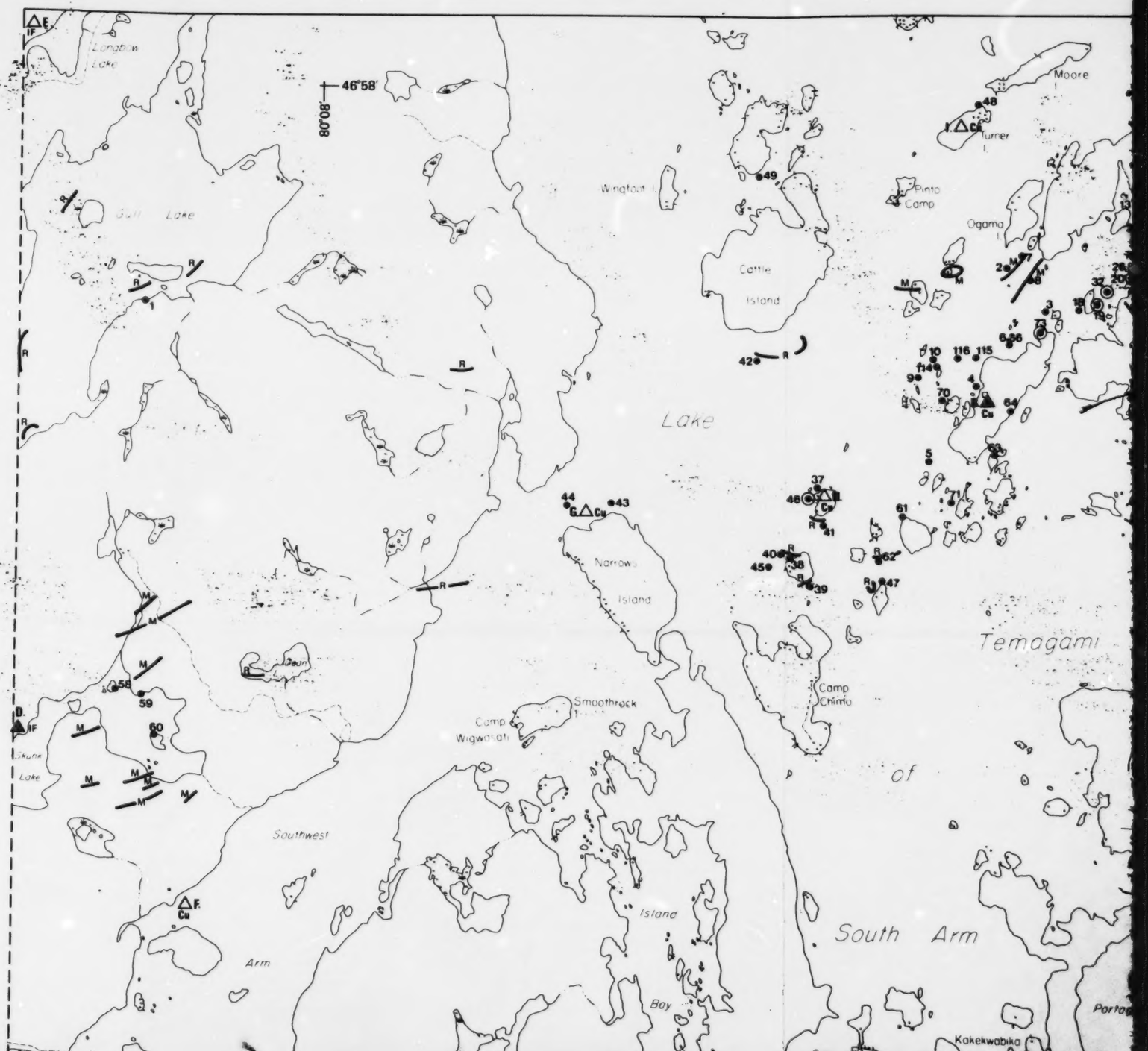
- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

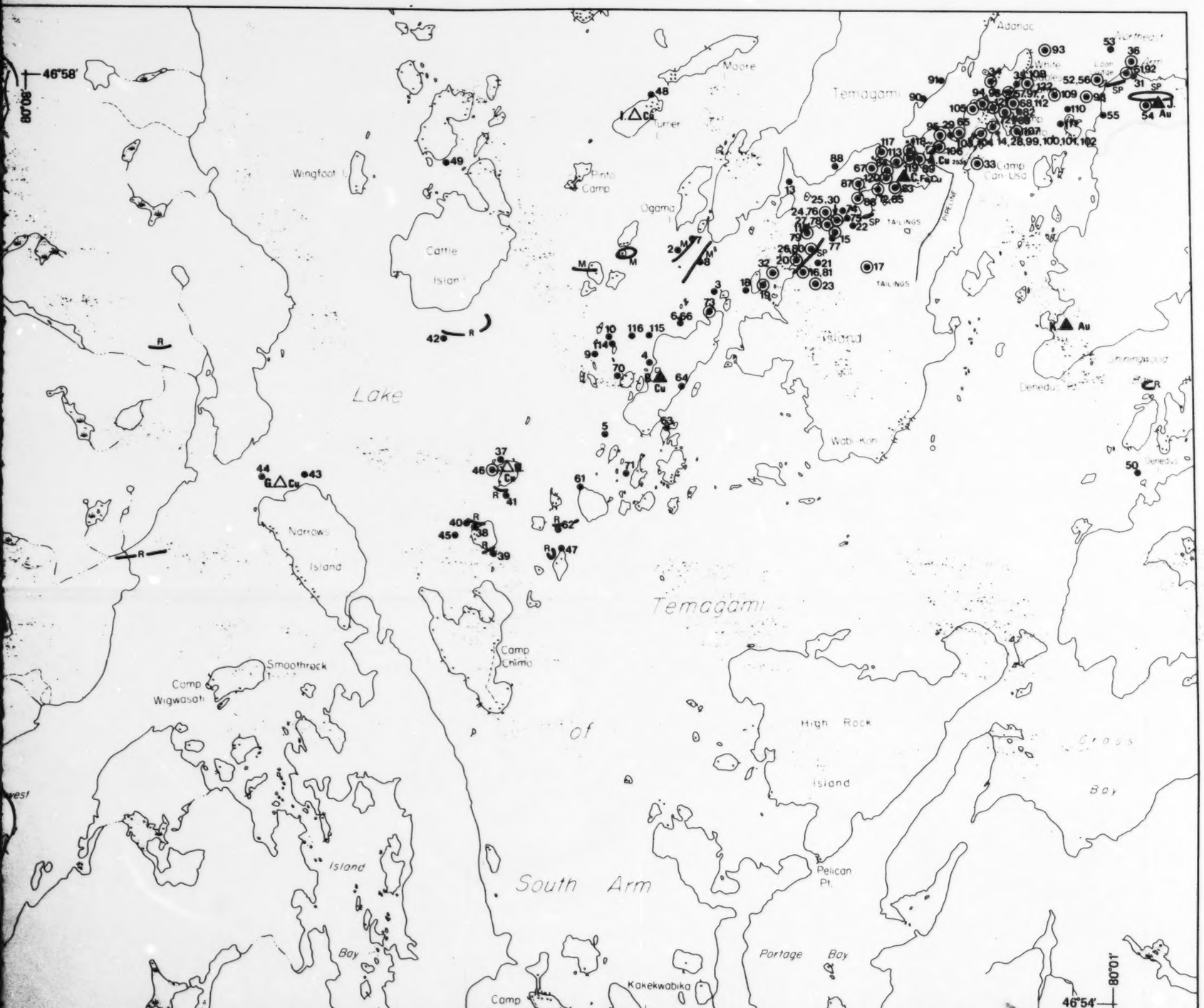
GEOPHYSICAL ANOMALIES

- Airborne Magnetometer Anomaly
- Airborne Electromagnetometer Anomaly
  Length of anomaly along flight line
- Airborne Electromagnetometer Anomaly.
  Location of anomaly along flight line
- Airborne Electromagnetometer Anomaly
  Conductor Axis: definite, probable, possible
- Airborne Radiometric Anomaly
- Ground Magnetometer Anomaly
- Ground Electromagnetometer Anomaly
  (VL - Vertical Loop; HL - Horizontal Loop;
  VLF - Very low freq; Turam; JEM -
  Crone EM - 16)
- Ground Radiometric Anomaly
- Induced Polarization Anomaly
- Self Potential Anomaly
- Audio-frequency magnetometer anomaly
  (total intensity)
- Resistivity Anomaly
- Gravity Anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Rock quarry
- Adit
- Sand and/or gravel pit
- Open pit




46°58'
80°08'
Wingfoot L.
Moore
Temagami
Adanac
Pinto Camp
Ogama
Turner
Cattle
Island
Lake
Island
Island
Island

Age dating material sampling site, with reference number

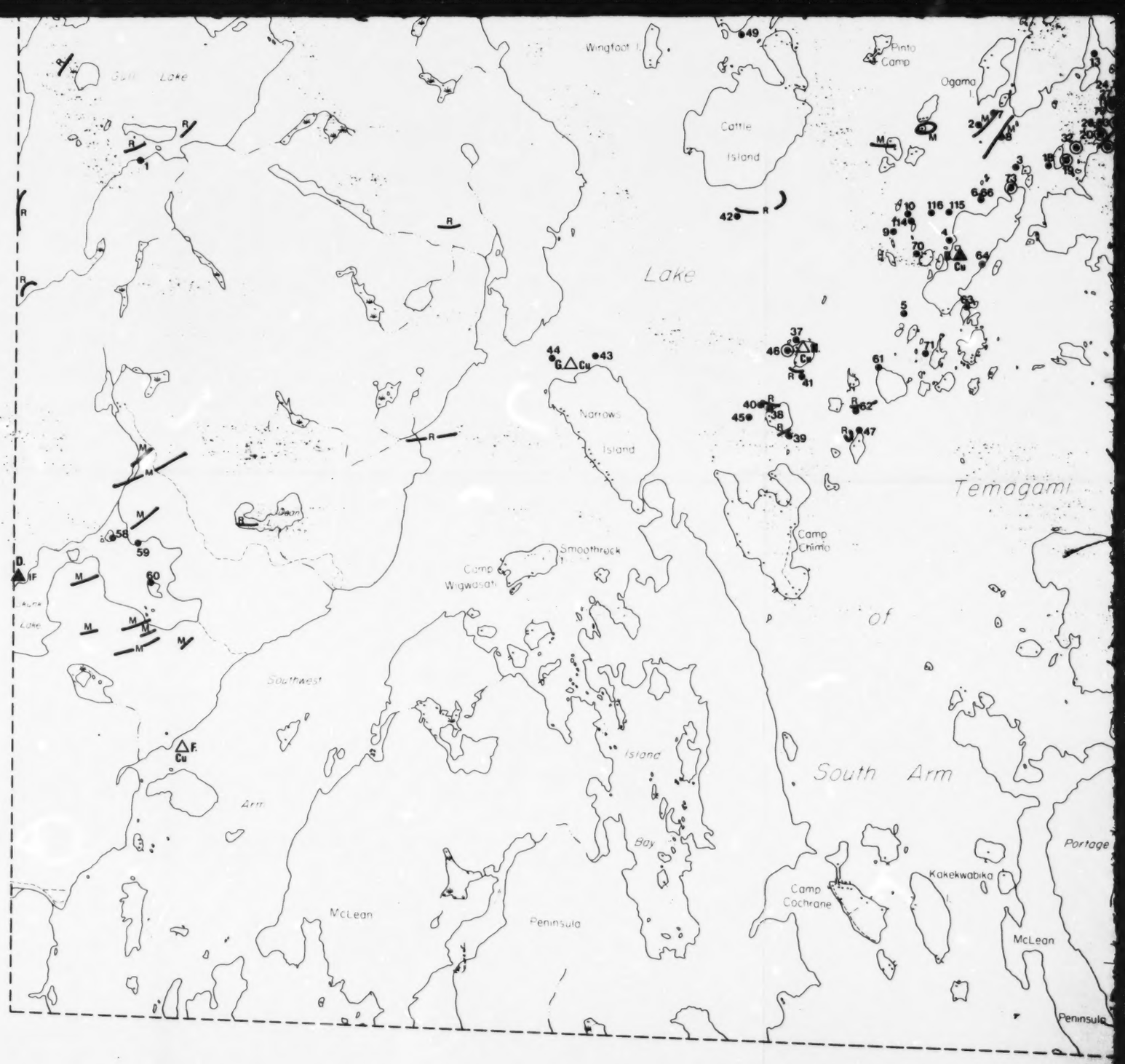
GEOPHYSICAL ANOMALIES

- Airborne Magnetometer Anomaly
- Airborne Electromagnetometer Anomaly
  Length of anomaly along flight line
- Airborne Electromagnetometer Anomaly.
  Location of anomaly along flight line
- Airborne Electromagnetometer Anomaly
  Conductor Axis: definite, probable, possible
- Airborne Radiometric Anomaly
- Ground Magnetometer Anomaly
- Ground Electromagnetometer Anomaly
  (VL - Vertical Loop; HL - Horizontal Loop;
  VLF - Very low freq; Turam; JEM -
  Crone EM - 16)
- Ground Radiometric Anomaly
- Induced Polarization Anomaly
- Self Potential Anomaly
- Audio-frequency magnetometer anomaly
  (total intensity)
- Resistivity Anomaly
- Gravity Anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



Mary Mogford
Deputy Minister

David Pecaskie
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 235

(Map 3 of 3)

PHYLLIS TOWNSHIP

DISTRICT OF NIPISSING

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized Float with reference letter
- Location of closely spaced mineral occurrences, with reference letter

DRILL HOLES

- Location of single drill hole, with reference number
- Location of closely spaced group of drill holes, with reference number
- Drill hole, exact location uncertain, with reference number.
- Property with underground drill holes in this general area, with reference number
- Property with drill holes which have not been plotted on map, with reference number
- Reverse Circulation Drill Hole; Churn drilling, with reference number